



GE Energy

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MFN 06-537

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U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555-0001

Subject: **Response to Portion of NRC Request for Additional Information
Letter No. 60 – Radiation Protection – RAI Number 12.5-7**

Enclosure 1 contains GE's response to the subject NRC RAIs transmitted via the Reference 1 letter.

If you have any questions or require additional information regarding the information provided here, please contact me.

Sincerely,

Kathy Sedney for

James C. Kinsey
Project Manager, ESBWR Licensing

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Reference:

1. MFN 06-342, Letter from U.S. Nuclear Regulatory Commission to David Hinds, *Request for Additional Information Letter No. 60 Related to the ESBWR Design Certification Application*, September 18, 2006

Enclosures:

1. MFN 06-537 – Response to Portion of NRC Request for Additional Information Letter No. 60 – Radiation Protection – RAI Number 12.5-7

cc: AE Cabbage USNRC (with enclosures)
GB Stramback GE/San Jose (with enclosures)
eDRF 0062-8074

Enclosure 1

MFN 06-537

**Response to Portion of NRC Request for
Additional Information Letter No. 60
Related to ESBWR Design Certification Application**

Radiation Protection

RAI 12.5-7

NRC RAI No. 12.5-7:

DCD Tier 2, Table 12.4-1 indicates that the dose rate assumed for ESBWR CRD HCU work was 4.5 mrem/hr. The ESBWR design has the HCUs located below the CRDs. Did the dose assessment of these units include the likely increased build up of activated corrosion and wear products from gravitational settling? Justify this low assumed dose rate.

GE Response:

As discussed in the response to RAI 12.4-3 (GE Letter MFN 06-389 dated October 18, 2006), there will be no HCU build up of activated corrosion and wear products from gravitational settling. This lack of contaminants will keep dose rates for the CRD HCU work relatively low.

DCD Impact:

No DCD changes will be made in response to this RAI.